

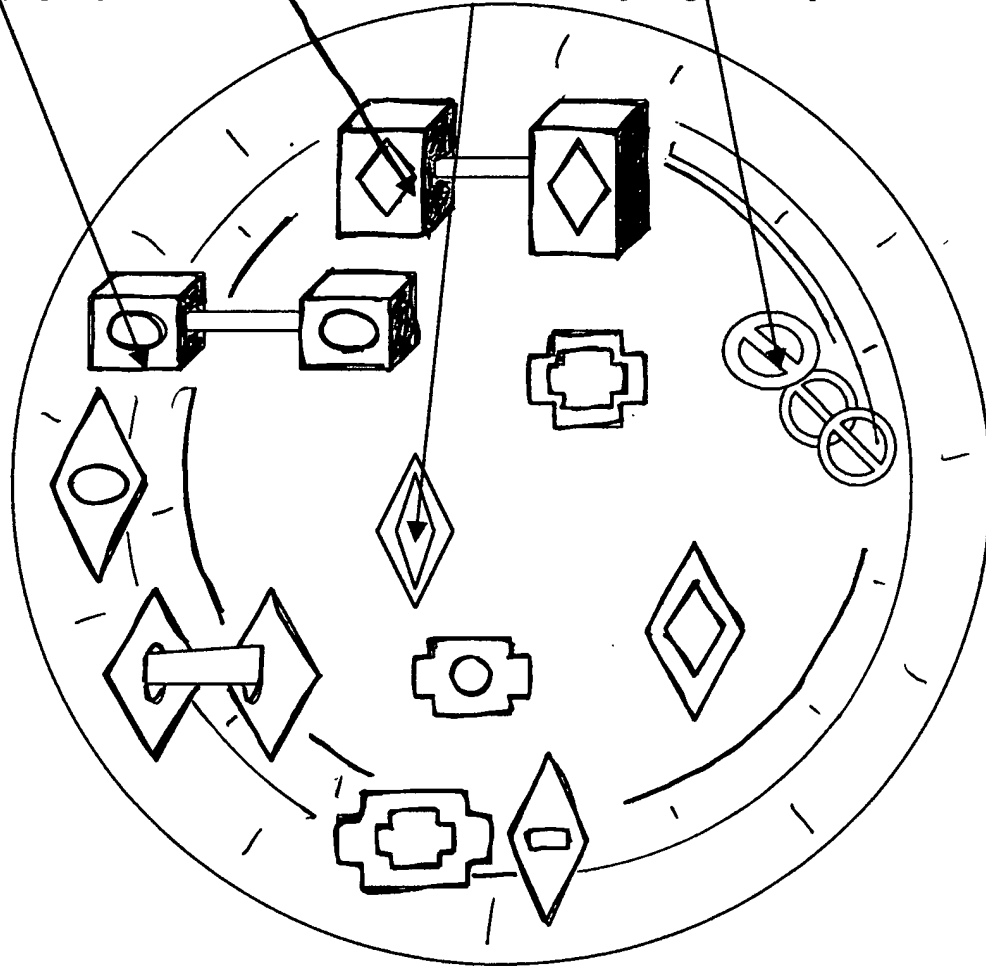
**"Electromagnetic Brain Animation"**

Inventor: William Rogers - Application #10/627,286

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FIGURE (1) Simulated view, example inside EBA "The Thinking Cap" which sits elevated over patient's head.

Varying shapes/formations animation/stimulation to multiple regions of impacted brain

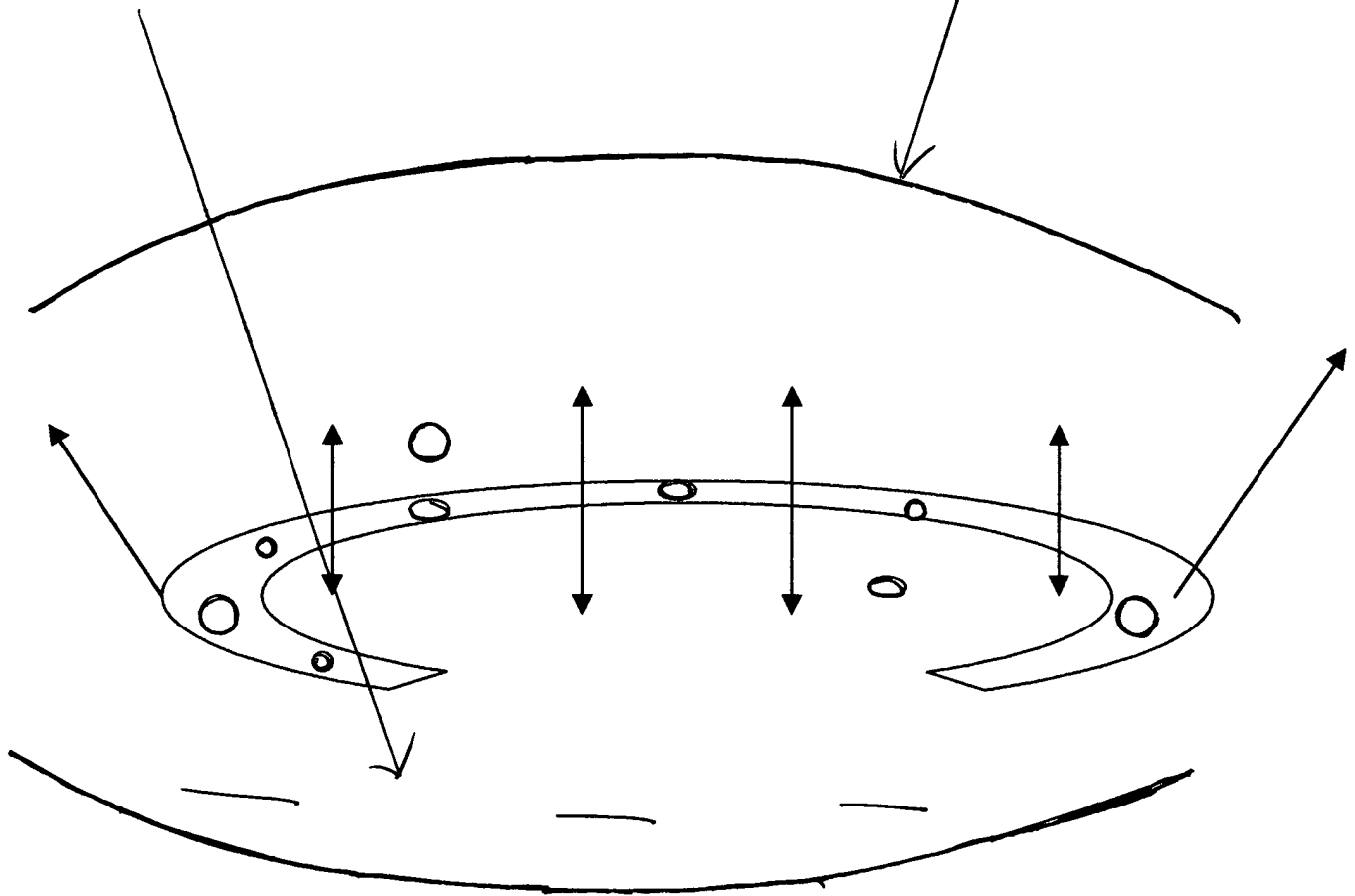


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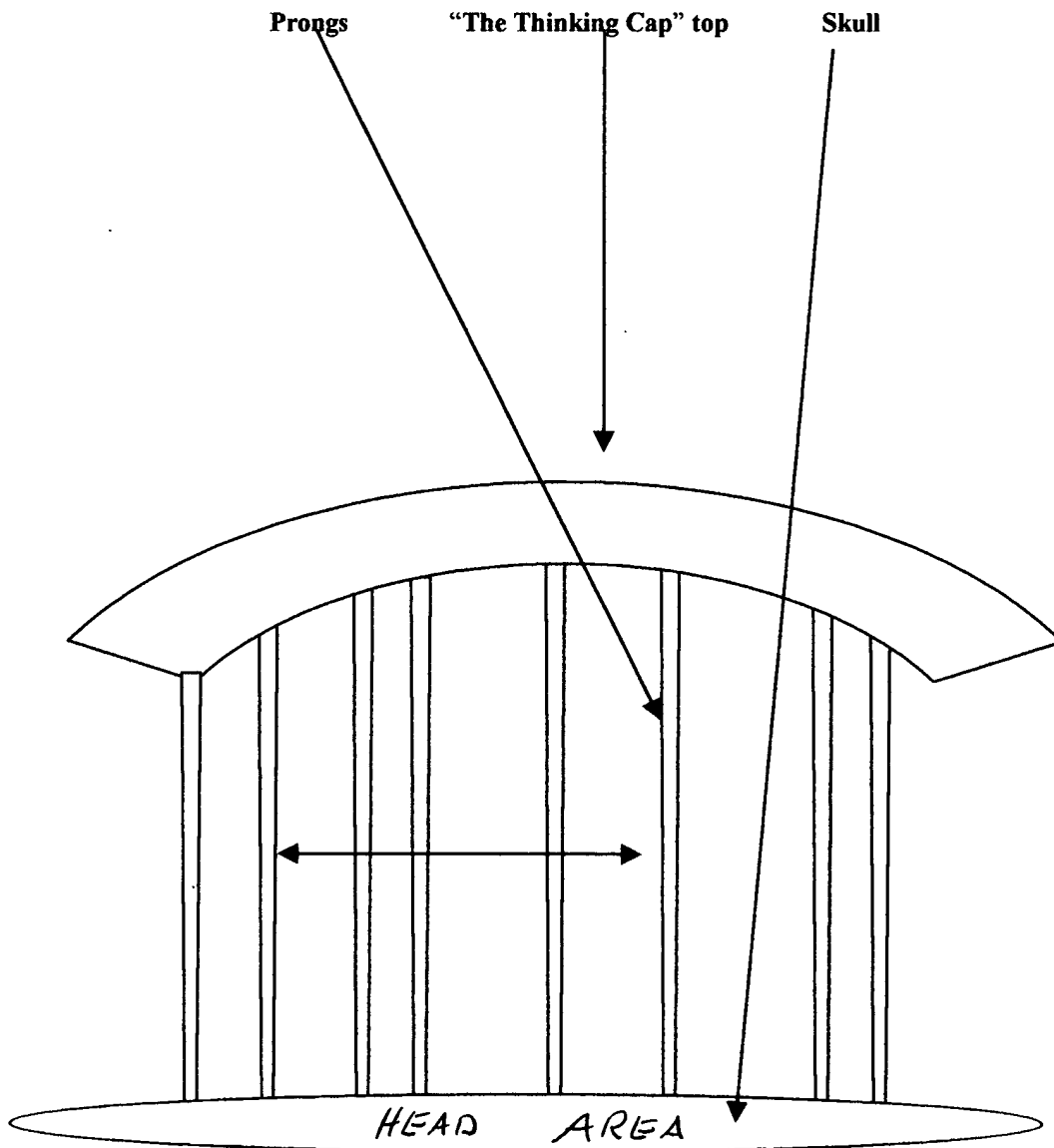
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FIGURE (2) Is the adjustable, pliable, conductive plate situated inside "Thinking Cap" top and around front/back, L-side/R-side, normally one half to three quarters of an inch above the contacts/coils all-round the skull area.



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FIGURE 3 - Are the 7 to 10 pliable/padded "prongs", moveable/adjustable, by which "The Thinking Cap" is fixated and situated on the patient's head previous to treatment.

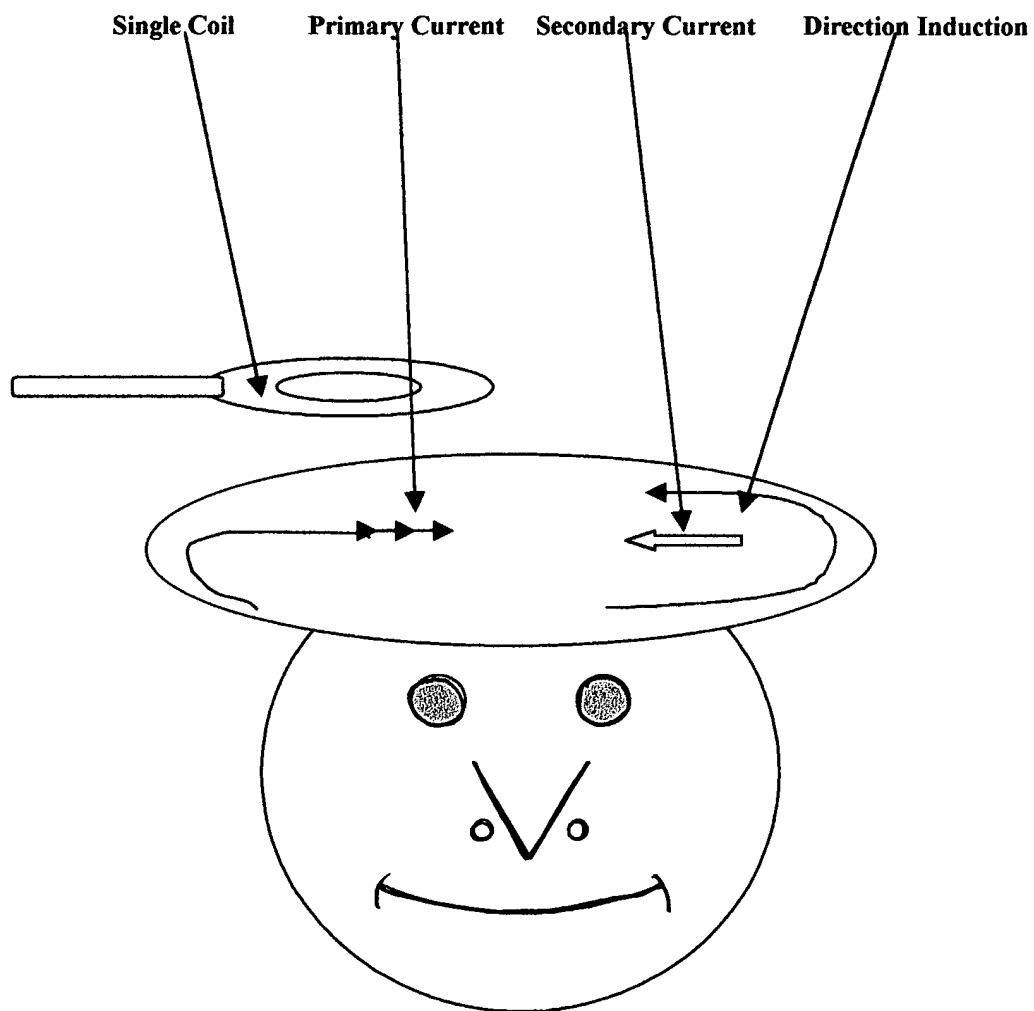


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FIGURE (4) Is illustration of phenomenon of directional specificity > a single coil at the vertex can stimulate tissue according to the direction. The image shows basic current flow in singularity with induced currents from one round coil hand-held above patient's head.).

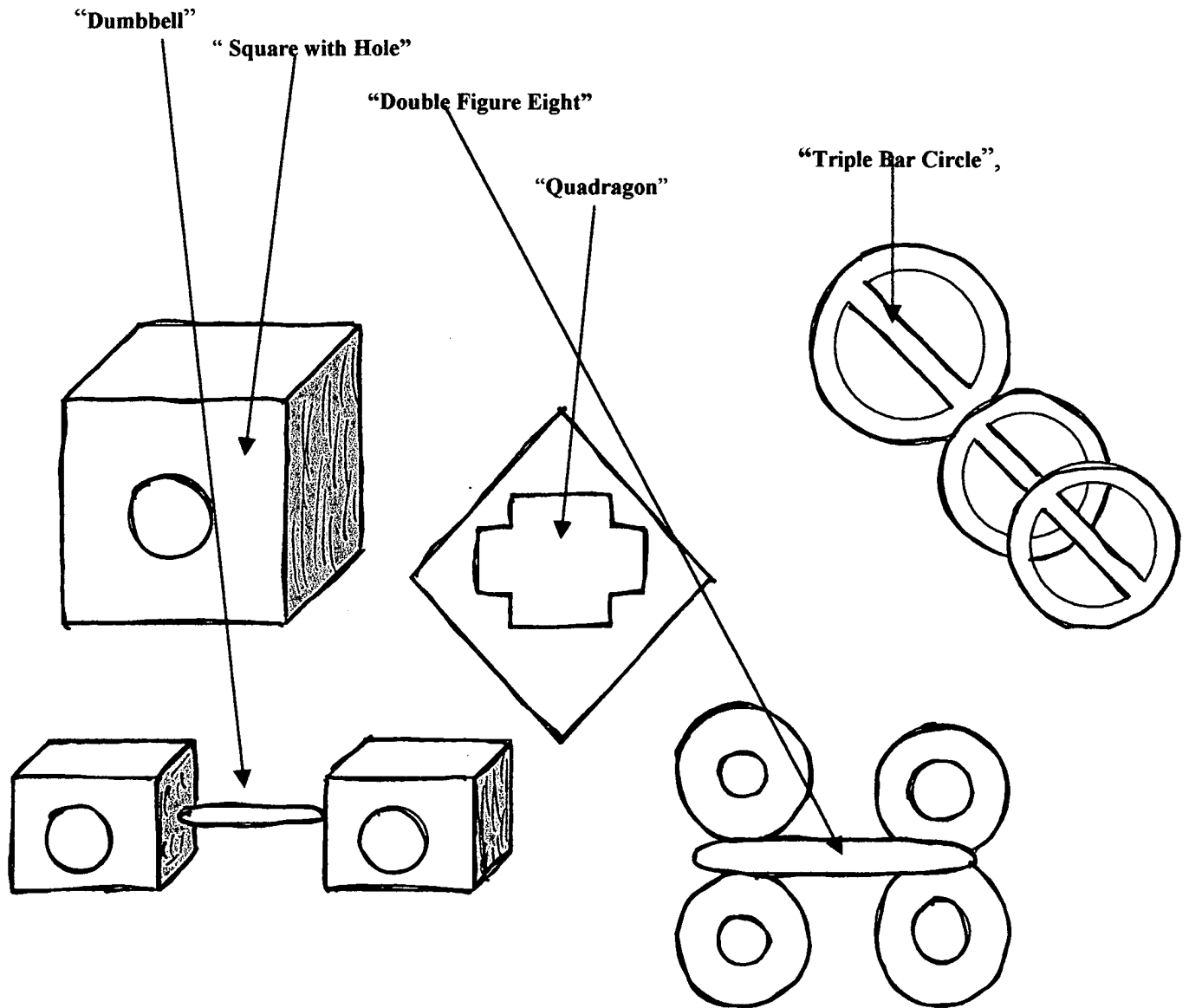


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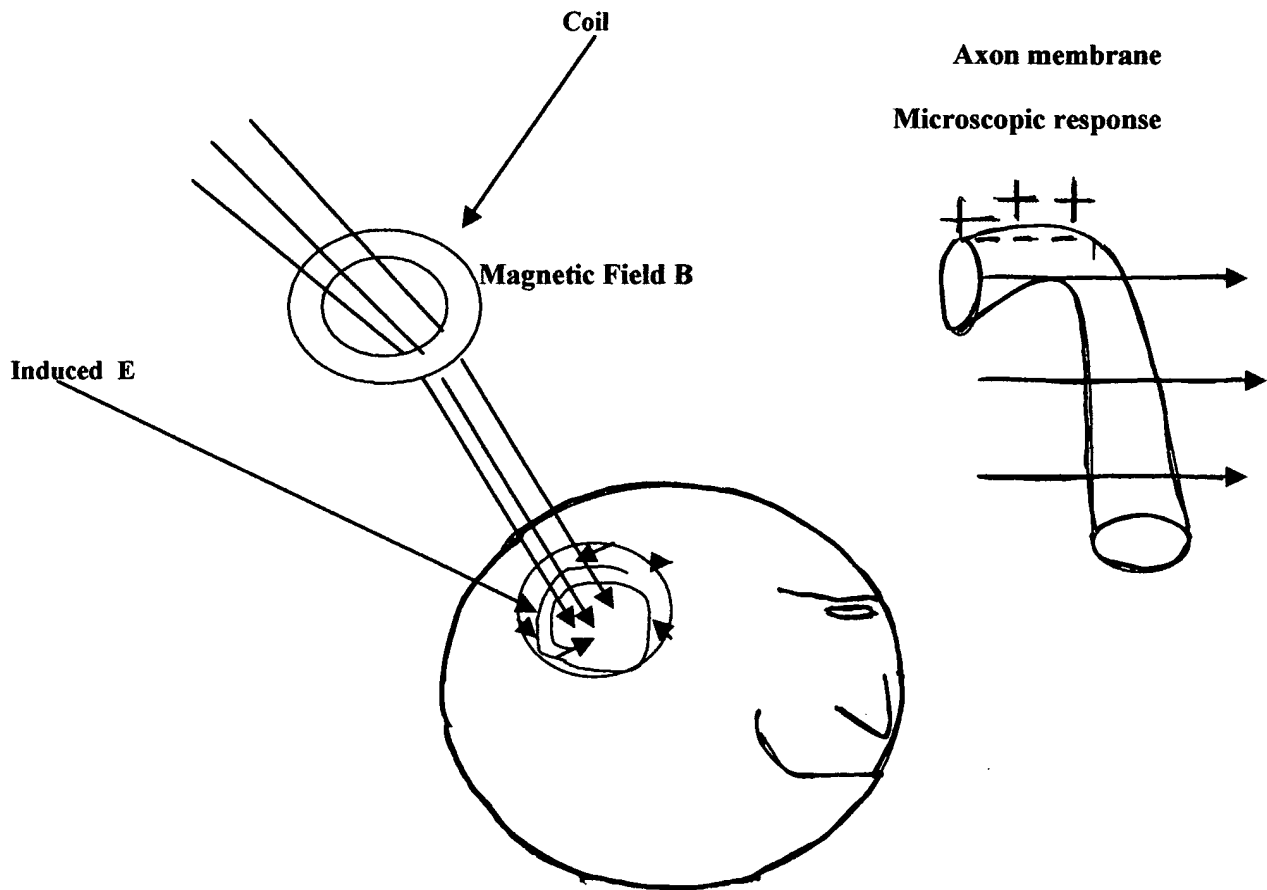
**FIGURE (5)** Shows multiple *examples* EBA coils in varying configurations.



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FIGURE 6 Summarizes the basic chain of events pertaining to general non-invasive processes. The induced E is strongest near the coil and typically stimulates a cortical area of a few centimeters in diameter.

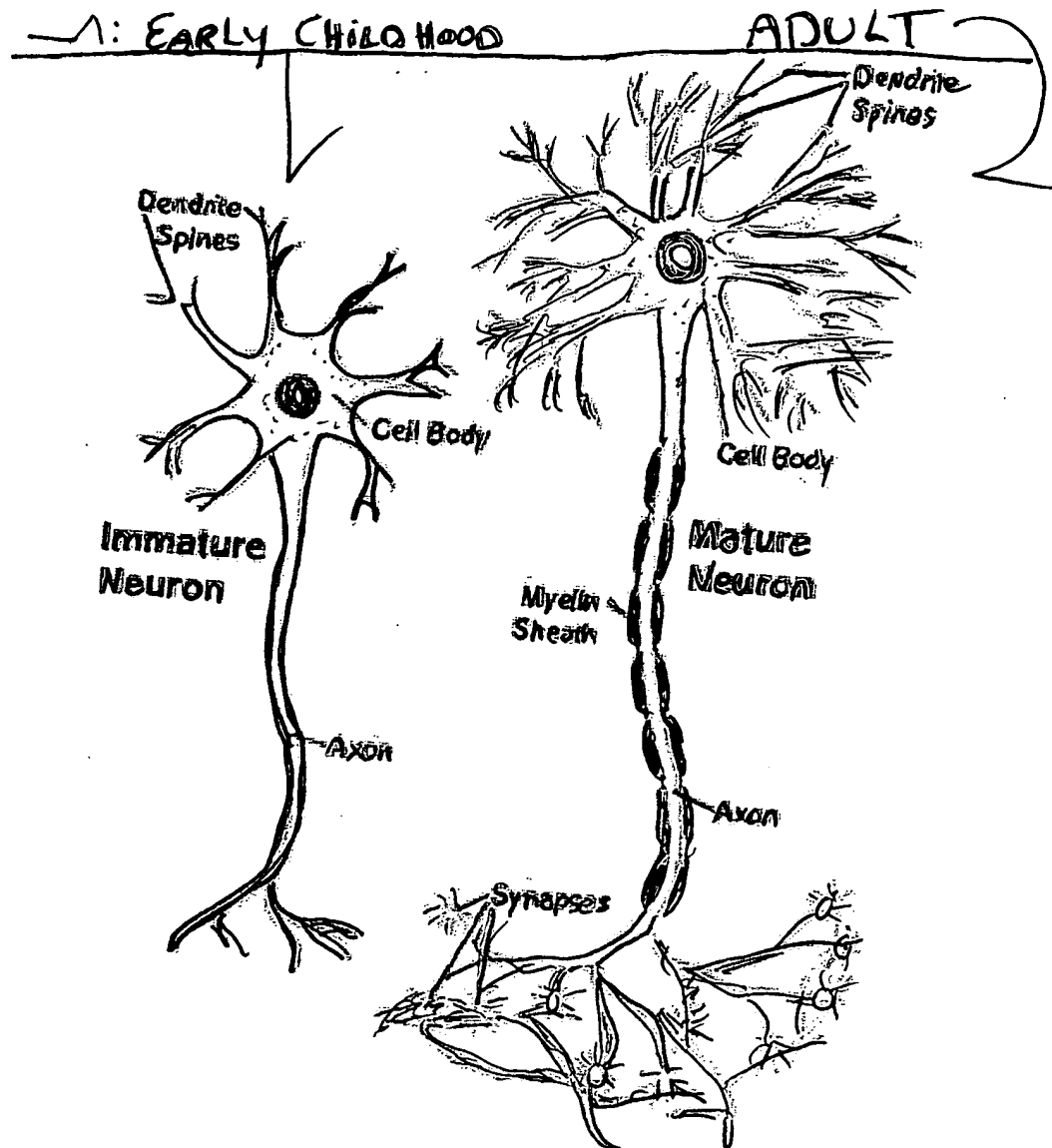


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FIGURE (7) Shows differentiation between early childhood development habituation and highest plasticity relating to critical time for peak window of opportunity.



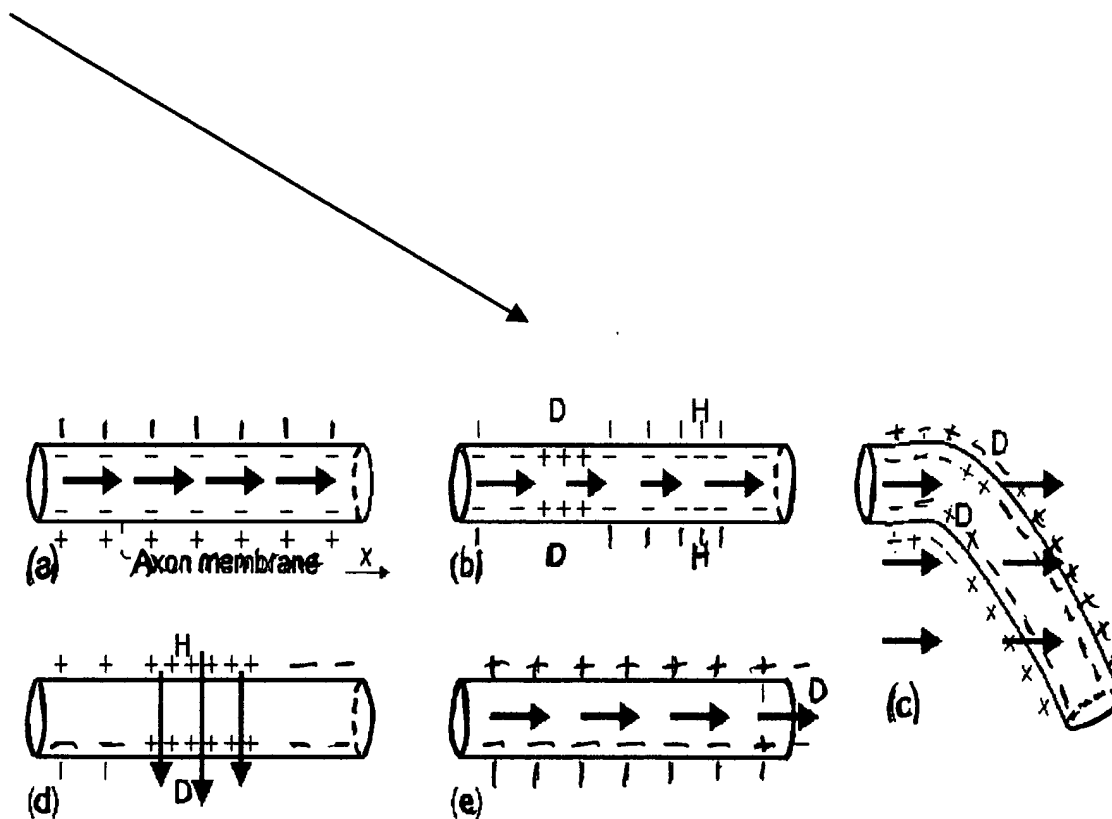
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FIGURE (8) A schematic illustration of activation mechanisms and axon membrane polarization in a transverse field is shown for varying external applications of electric field patterns.

Axon membrane polarization sketched for different externally applied electric field patterns (arrows):.



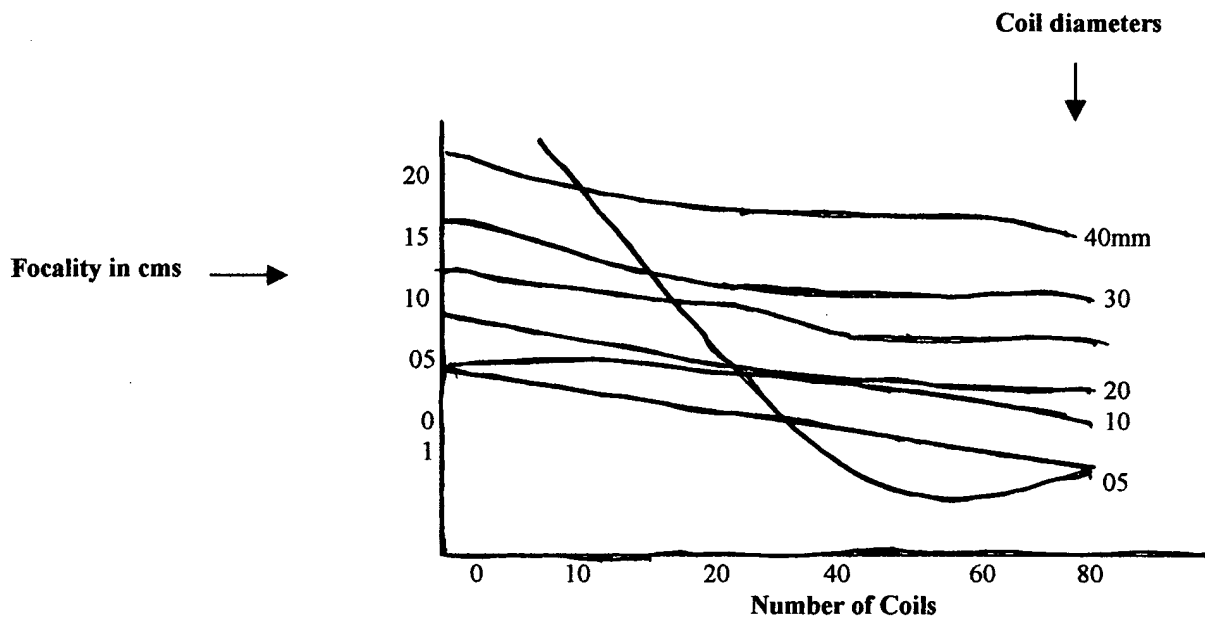


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FIGURE 9- Refers use of multiple independently controlled animating coils allowing heretofore-unattainable animation/stimulation data as result of varying formation, numbers, placement and specificity of coils

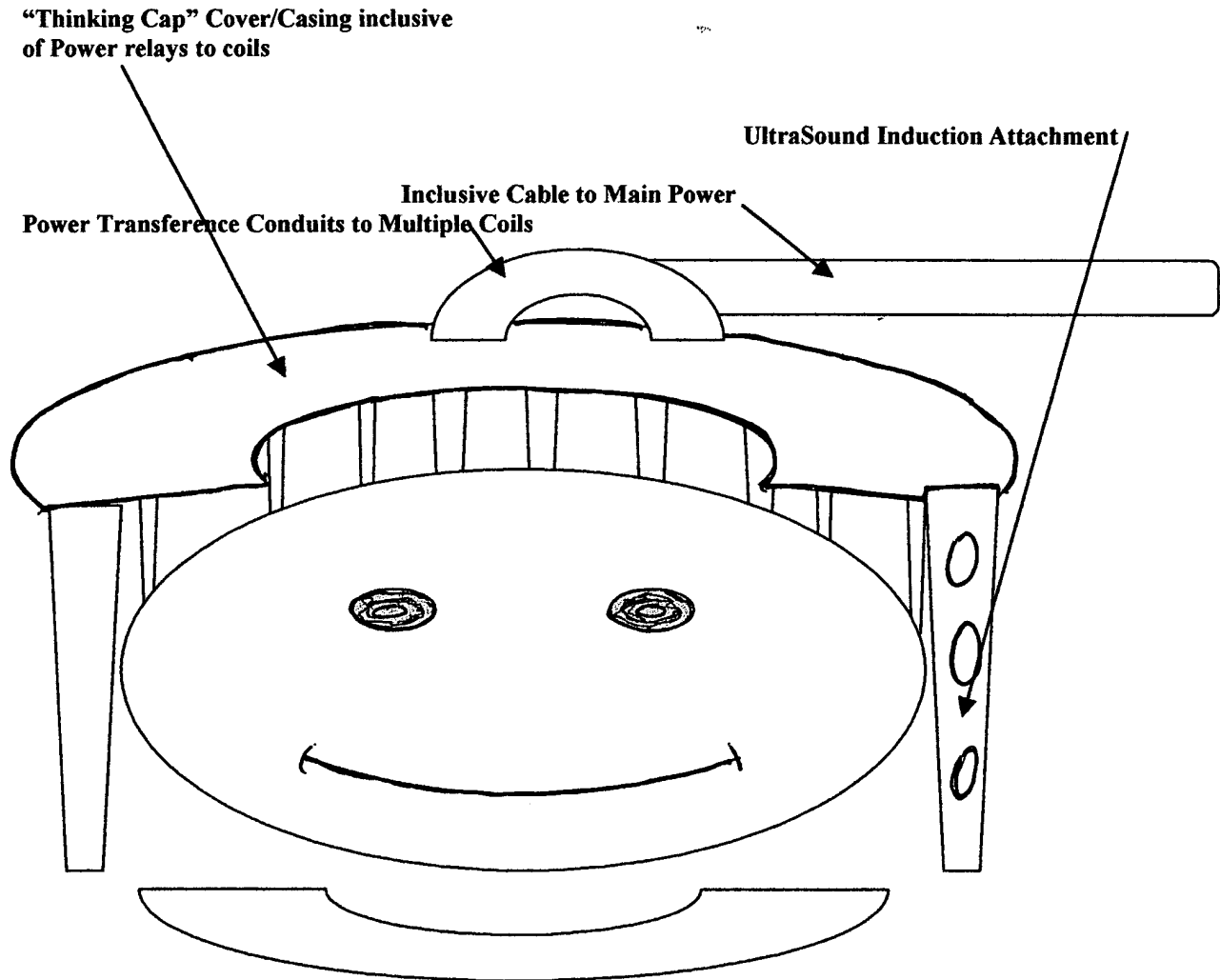


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FIGURE (10) Outer "mechanistic" view of "Thinking Cap", adjustable prongs, adjustable chin stability assistance, and other so-named parts of instrumentation



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FIGURE 11- Shows the initial treatment modality relating to EBA/US whereas ultrasonic waves vibrating at frequencies greater than 20,000 cycles per second are integrated through the human/patient's skull and into an excitation focal area.

